# PATENT COOPERATION TREATY PCT

### INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)

Applicant RICOH COMPANY, LTD.  This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of 3 sheets.  It is also accompanied by a copy of each prior art document cited in this report.  1. Basis of the report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  The international search was carried out on the basis of a translation of the international application furnished the this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. 12.  Certain claims were found unsearchable (See Box II).	R04364PCT	ACTION	as well as, where applicable, item 5 below.		
Applicant RICOH COMPANY, LTD.  This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of 3 sheets.  It is also accompanied by a copy of each prior art document cited in this report.  1. Basis of the report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  The international search was carried out on the basis of a translation of the international application furnished the this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. 12.  Certain claims were found unsearchable (See Box II).		- ' '	/year) (Earliest) Priority Date (day/month/year)		
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<ul> <li>a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> <li>the international search was carried out on the basis of a translation of the international application furnished that this Authority (Rule 23.1(b)).</li> <li>b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. 1</li> <li>Certain claims were found unsearchable (See Box II).</li> </ul>	to Article 18. A copy is being transmitted This international search report consists o	to the International Bureau. of a total of3 sheets.			
2. Certain claims were found unsearchable (See Box II).	<ul> <li>a. With regard to the language, the language in which it was filed, use the international search</li> </ul>	nless otherwise indicated under this it h was carried out on the basis of a tra	iem.		
	b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.				
_	2. Certain claims were found unsearchable (See Box II).				
3. Unity of invention is lacking (See Box III).					
4. With regard to the title,					
the text is approved as submitted by the applicant.	the text is approved as sub	mitted by the applicant.			
the text has been established by this Authority to read as follows:	the text has been establish	ed by this Authority to read as follo	ows:		
5. With regard to the abstract,	5. With regard to the abstract,				
the text is approved as submitted by the applicant.	the text is approved as subm	itted by the applicant.			
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The application may, within one month from the date of mailing of this international search report, submit comments to this Authority					
6. With regard to the drawings,	6. With regard to the drawings,				
a. the figure of the drawings to be published with the abstract is Figure No1	a. the figure of the drawings to be p	ublished with the abstract is Figure	e No1		
as suggested by the applicant.  as selected by this Authority, because the applicant failed to suggest a figure.  as selected by this Authority, because this figure better characterizes the invention.  b. \( \Gamma \) none of the figures is to be published with the abstract.	as selected by this Auti	hority, because the applicant failed to hority, because this figure better chara			

# INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/006550

# CLASSIFICATION OF SUBJECT MATTER

Int.Cl. H01L21/822, 27/04, 27/06

According to International Patent Classification (IPC) or to both national classification and IPC

#### FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. H01L21/822, 27/04, 27/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996
Published unexamined utility model applications of Japan 1971-2005
Registered utility model specifications of Japan 1996-2005
Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 3-173468 A(SEIKO EPSON CORPORATION) 1991.07.26, line 18 upper right-hand page 2 to line 5 lower right-hand page 2, Fig. 1 (Family: none)	1,2,8
X Y	JP 11-220094 A(SONY CORPORATION) 1999.08.10, [0018]-[0024], Figs. 1-3 (Family: none)	1,2
X A	JP 6-188369 A(MOTOROLA JAPAN) 1994.07.08, [0012]-[0018], Figs.1-2 (Family: none)	3,7 4-6
* Special "A" docume conside "E" earlier nationa	national filing date	

considered to be of particular relevance		understand the principle or theory underlying the invention		
"E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such		
		combination being obvious to a person skilled in the art  "&" document member of the same patent family		
	Date of the actual completion of the international search	Date of mailing of the international search report		
03.06.2005		<b>21</b> . 6. 2005		
-	Name and mailing address of the ISA/JP	Authorized officer 4L 2933		
Japan Patent Office		SHINGO FUCHI		
	3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan   Telephone No. +81-3-3581-1101 Ext. 3498			

## INTERNATIONALSEARCHREPORT

International application No.
PCT/JP2005/006550

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
		2
X	JP 9-116097 A(SEIKO EPSON CORPORATION)	3
A	1997.05.02, [0011]-[0012], Fig. 1	4-6
	(Family: none)	
Y	JP 8-181219 A(NIPPON DENSO CORPORATION)	9
	1996.07.12, [0003]-[0005], Fig.3	
	(Family: none)	
70.	TD 0 46142 7 (NIEDON DENSO CORDODATION)	4-6
A	JP 8-46142 A(NIPPON DENSO CORPORATION)	4-0
•	1996.02.16, whole document, Figs. 1-9	
	(Family: none)	
A	Microfilm of the specification and drawings	4-6
	annexed to the written application of Japanese	·
	Utility Model Application No. 81054/1984	
	(Laid-open No. 81045/1984) (SANYOELECTRIC CO,	
	LTD.)	
	1984.05.31, whole document, Figs. 1-5	
	(Family: none)	
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